NAME OF WORK : Improvements to Roads and Drains at Anjanadri Layout and Surrounding Area in Ward No 06 Thanisandra

EMB

Second and Final Bill

Measurement Sheet

(Book No.02)

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BBMP

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK: Improvements to Roads and Drains at Anjanadri Layout and Surrounding Area in Ward No 06 Thanisandra

Measurement Sheet

Second and Final bill

Client: Sri vinaya Builders Prop.Kumar Raju K No: 10 Gokuka Nilaya, Dhanalakshmi L/O,Opp Indian oil Petrol Bank, Thindlu Main, Road, Bangalore-97

Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.
Item no.01		Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cementconcrete, wood work, steel work, including T&P and scaffolding wherevernecessary, sorting the dismantled material, disposal of unserviceablematerial and stacking the serviceable material with all liftsas per specifications. and as per the directions of the Engineer-in-charge of the work										
		Item Not Operated										
Item no.02		Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. and as per the directions of the Engineer-in-charge of the work										
		Item Not Operated										
Item no.03		Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. and as per the directions of the Engineer-in-charge of the work										
			Cum									
		Total Executed Quantity								1814.23		
		Modified Schedule B No.2 Quantity								1814.23		
		DPQ Quantity Paid in 1st RA Bill								1814.23		
		Now to be Paid Quantity								Nill		
Item no.4		Providing and laying Plain cement concrete of mix1:3:6 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days Including cost of materials,labour, HOM curing form work, Scaffolding and Centering complete as per specifications. and as per the directions of the Engineer-in-charge of the work										
			Cum									
		Vide Total executed Quantity from premeasuremet Page no. 01 to 03								679.55		
		Total Executed Quantity								679.55		
		Modified Schedule B No.2 Quantity										
		Quantity Upto 125%								668.88		
		Quantity Above 125%								10.67		
		DPQ Quantity Paid in 1st RA Bill Upto 125%								272.34		
		Now to be Paid Quantity										
		Quantity Upto 125%								396.53	5692.99	2257444.00
		Quantity Above 125%								10.67	5692.45	60744.00
Item no.05		Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification and as per the directions of the Engineer-in-charge of the work										
			Cum									
		Total Executed Quantity								565.49		
		Modified Schedule B No.2 Quantity								565.49		
		DPQ Quantity Paid in 1st RA Bill								565.49		
		Now to be Paid Quantity								Nill		
Item no.06		Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. and as per the directions of the Engineer-in-charge of the work										
			tonne									
		Total Executed Quantity								40.55		
		Modified Schedule B No.2 Quantity								40.55		
		DPQ Quantity Paid in 1st RA Bill								40.55		
		Now to be Paid Quantity								Nill		

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ಸಹಾಯಕ ಅಭಿಯಂತರರು
ASSISTANT ENGINEER
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ASSISTANT EXECUTIVE ENGINEER
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth avg B	Depth (mm)	Quantity	Rate in RS.	Amount in RS.
Item no.07		Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,complete.										
			Sqm									
		Total Executed Quantity										
		Modified Schedule B No.2 Quantity										
		DPQ Quantity Paid in 1st RA Bill								1136.36		
		Now to be Paid Quantity								1136.36		
										1136.36		
										Nill		
Item no.08		Providing and Fixing pre cast covering Slab 250mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete and as per the directions of the Engineer-in-charge of the work										
			Sqm									
		Total Executed Quantity										
		Modified Schedule B No.2 Quantity								79.08		
		DPQ Quantity Paid in 1st RA Bill								79.08		
		Now to be Paid Quantity								79.08		
										Nill		
Item no.09		Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications and as per the directions of the Engineer-in-charge of the work										
			Cum									
		Vide Total executed Quantity from premeasuremet Page no. 04 & 05										
		Total Executed Quantity								1232.51		
		Modified Schedule B No.2 Quantity								1232.51		
		Quantity upto125%										
		Quantity Above 125%								779.94		
		Now to be Paid Quantity								452.57		
		Quantity upto125%										
		Quantity Above 125%								779.94	59.02	46032.00
										452.57	59.07	26733.00
Item no.10		Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. and as per the directions of the Engineer-in-charge of the work										
			Sqm									
		Vide Total executed Quantity from premeasuremet Page no. 06 & 07										
		Total Executed Quantity								2662.40		
		Modified Schedule B No.2 Quantity								2662.40		
		Quantity upto125%										
		Quantity Above 125%								1733.19		
		Now to be Paid Quantity								929.21		
		Quantity upto125%										
		Quantity Above 125%								1733.19	6.36	11024.00
										929.21	6.68	6205.00
Item no.11		Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC. Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications and as per the directions of the Engineer-in-charge of the work										
			Cum									
		Vide Total executed Quantity from premeasuremet Page no. 08 & 09								433.79		
		Total Executed Quantity								433.79		
		Modified Schedule B No.2 Quantity								259.98		
		Quantity upto125%								173.82		
		Quantity Above 125%										
		Now to be Paid Quantity								259.98	2090.68	543525.00
		Quantity upto125%								173.82	2094.47	364055.00
		Quantity Above 125%										

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ಸಹಾಯಕ ಅಭಿಯಂತರರು ASSISTANT ENGINEER

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು ASSISTANT EXECUTIVE ENGINEER

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Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.
Item no.12		Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. -and as per the directions of the Engineer-in-charge of the work										
Measurements taken on												
		3rd Cross Noor Masjid Road East To West										
0.00	15.00		Cum	1	15.00	3.75	4.05	3.90	0.15	8.78		
15.00	30.00		Cum	1	15.00	4.05	3.50	3.78	0.15	8.49		
30.00	45.00		Cum	1	15.00	3.50	3.30	3.40	0.15	7.65		
45.00	60.00		Cum	1	15.00	3.30	3.40	3.35	0.15	7.54		
60.00	75.00		Cum	1	15.00	3.40	3.30	3.35	0.15	7.54		
75.00	90.00		Cum	1	15.00	3.30	4.00	3.65	0.15	8.21		
90.00	105.00		Cum	1	15.00	4.00	4.20	4.10	0.15	9.23		
105.00	119.40		Cum	1	14.40	4.20	4.40	4.30	0.15	9.29		
119.40	122.80		Cum	1	3.40	7.30	7.30	7.30	0.15	3.72		
122.80	128.50		Cum	1	5.70	3.45	3.15	3.30	0.15	2.82		
128.50	130.40		Cum	1	1.90	3.15	2.20	2.68	0.15	0.76		
		4th Cross Road East To West										
0.00	15.00		Cum	1	15.00	3.75	3.45	3.60	0.15	8.10		
15.00	30.00		Cum	1	15.00	3.45	3.60	3.53	0.15	7.93		
30.00	45.00		Cum	1	15.00	3.60	3.10	3.35	0.15	7.54		
45.00	60.00		Cum	1	15.00	3.10	3.65	3.38	0.15	7.59		
60.00	75.00		Cum	1	15.00	3.65	3.70	3.68	0.15	8.27		
75.00	90.00		Cum	1	15.00	3.70	3.40	3.55	0.15	7.99		
90.00	105.00		Cum	1	15.00	3.40	3.30	3.35	0.15	7.54		
105.00	120.00		Cum	1	15.00	3.30	3.50	3.40	0.15	7.65		
120.00	126.90		Cum	1	6.90	3.50	3.40	3.45	0.15	3.57		
		5th Cross , SLS Store Opposite Road North To South										
0.00	13.80		Cum	1	13.80	4.50	3.95	4.23	0.15	8.75		
13.80	15.00		Cum	1	1.20	4.85	4.75	4.80	0.15	0.86		
15.00	19.60		Cum	1	4.60	4.75	4.25	4.50	0.15	3.11		
19.60	25.10		Cum	1	5.50	3.85	3.90	3.88	0.15	3.20		
		6th Cross, Al Khayum Masjid Road North To South										
0.00	8.70		Cum	1	8.70	2.50	3.10	2.80	0.15	3.65		
8.70	15.00		Cum	1	6.30	2.60	3.65	3.13	0.15	2.95		
15.00	17.80		Cum	1	2.80	3.65	3.75	3.70	0.15	1.55		
17.80	25.40		Cum	1	7.60	3.55	3.75	3.65	0.15	4.16		
25.40	30.00		Cum	1	4.60	4.70	4.70	4.70	0.15	3.24		
30.00	43.80		Cum	1	13.80	4.70	4.60	4.65	0.15	9.63		
43.80	46.40		Cum	1	2.60	4.60	4.10	4.35	0.15	1.70		
		8th Cross Road, Oormila Nilayam Opposite Road North To South										
0.00	15.00		Cum	1	15.00	3.45	3.25	3.35	0.15	7.54		
15.00	26.21		Cum	1	11.21	3.25	2.95	3.10	0.15	5.21		

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ಸಹಾಯಕ ಅಭಿಯಂತರರು ASSISTANT ENGINEER ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ASSISTANT EXECUTIVE ENGINEER ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.
		Nagakaliyamma Temple Road West To East										
0.00	4.40		Cum	1	4.40	4.70	4.90	4.80	0.15	3.17		
4.40	15.00		Cum	1	10.60	5.25	5.20	5.23	0.15	8.31		
15.00	30.00		Cum	1	15.00	5.20	5.05	5.13	0.15	11.53		
30.00	45.00		Cum	1	15.00	5.05	4.95	5.00	0.15	11.25		
45.00	60.00		Cum	1	15.00	4.95	4.90	4.93	0.15	11.08		
60.00	75.00		Cum	1	15.00	4.90	4.80	4.85	0.15	10.91		
75.00	90.00		Cum	1	15.00	4.80	4.95	4.88	0.15	10.97		
90.00	105.00		Cum	1	15.00	4.95	4.65	4.80	0.15	10.80		
105.00	120.00		Cum	1	15.00	4.65	3.80	4.23	0.15	9.51		
120.00	135.00		Cum	1	15.00	3.80	4.60	4.20	0.15	9.45		
135.00	150.00		Cum	1	15.00	4.60	4.75	4.68	0.15	10.52		
150.00	165.00		Cum	1	15.00	4.75	5.05	4.90	0.15	11.03		
165.00	180.00		Cum	1	15.00	5.05	5.40	5.23	0.15	11.76		
180.00	195.00		Cum	1	15.00	5.40	5.10	5.25	0.15	11.81		
195.00	210.00		Cum	1	15.00	5.10	5.00	5.05	0.15	11.36		
210.00	225.00		Cum	1	15.00	5.00	4.80	4.90	0.15	11.03		
225.00	240.00		Cum	1	15.00	4.80	4.65	4.73	0.15	10.63		
240.00	255.00		Cum	1	15.00	4.65	4.20	4.43	0.15	9.96		
255.00	270.00		Cum	1	15.00	4.20	4.65	4.43	0.15	9.96		
270.00	285.20		Cum	1	15.20	4.65	5.50	5.08	0.15	11.57		
		Culvert Ramp										
			Cum	1	4.50	1.90	1.90	1.90	0.20	1.71		
			Cum	1	4.40	1.80	1.80	1.80	0.20	1.58		
			Cum	1	3.75	1.15	1.15	1.15	0.20	0.86		
			Cum	1	3.60	0.90	0.90	0.90	0.20	0.65		
			Cum	1	5.00	1.20	1.20	1.20	0.20	1.20		
			Cum	1	5.00	1.15	1.15	1.15	0.20	1.15		
			Cum	1	5.00	1.10	1.10	1.10	0.20	1.10		
			Cum	1	5.00	1.10	1.10	1.10	0.20	1.10		
			Cum	1	5.00	1.10	1.10	1.10	0.20	1.10		
		Deduction										
		Manhole										
			Cum	-14	0.64				0.15	-1.34		
					(3.14X0.9X0.9)=0.64							
		Chamber	Cum	-12	0.45	0.45	0.45	0.45	0.15	-0.36		
			Cum	-1	0.75	0.75	0.75	0.75	0.15	-0.08		
		Chamber	Cum	-1	0.60	0.75	0.75	0.75	0.15	-0.07		
		Tree Pot	Cum	-1	0.70	0.70	0.70	0.70	0.15	-0.07		
			Cum	-1	0.45	0.45	0.45	0.45	0.15	-0.03		
			Cum	-1	0.65	0.60	0.60	0.60	0.15	-0.06		
		steps										
			Cum	-1	1.00	0.60	0.60	0.60	0.15	-0.09		
			Cum	-1	1.50	0.60	0.60	0.60	0.15	-0.14		
			Cum	-1	3.80	0.90	0.90	0.90	0.15	-0.51		
			Cum	-1	1.80	0.85	0.85	0.85	0.15	-0.23		
		Total Executed Quantity								409.82		
		Modified Schedule B No.2 Quantity								259.98		
		Quantity upto125%								149.84		
		Quantity Above 125%										
		Now to be Paid Quantity								259.98	5471.51	1422456.00
		Quantity upto125%								149.84	5470.99	819774.00
		Quantity Above 125%										

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12.04.2023
ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

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Chainage From	Chainage To	Description of Item	Unit	No	Length (m)	Breadth B1	Breadth B2	Breadth avg B	Depth (m)	Quantity	Rate in RS.	Amount in RS.
		Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications and directions of the Engineer in charge.										
E1			Cum									
		Vide Total executed Quantity from premeasuremet Page no. 10								244.13		
		Total Executed Quantity								244.13		
		Modified Schedule B No.2 Quantity								244.13		
		Now to be Paid Quantity								244.13	332.76	81234.00
		Providing and installing at site of work 63mm (0.662) PVC Pipes of 6kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including joining of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete as per specifications and directions of the Engineer in charge.										
E2			m									
		Vide Total executed Quantity from premeasuremet Page no. 11								542.50		
		Total Executed Quantity								542.50		
		Modified Schedule B No.2 Quantity								542.50		
		Now to be Paid Quantity								542.50	414.00	224594.00
		Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications and directions of the Engineer in charge.										
E3			Cum									
		Vide Total executed Quantity from premeasuremet Page no. 12								244.13		
		Total Executed Quantity								244.13		
		Modified Schedule B No.2 Quantity								244.13		
		Now to be Paid Quantity								244.13	134.66	32874.00
											Sub Total	5896694.00
											GST 12%	707603.00
											6% GST	353802.00
											Grand Total	6958099.00

Round off. 6955000.00

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ಸಹಾಯಕ ಅಭಿಯಂತರರು ASSISTANT ENGINEER ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ASSISTANT EXECUTIVE ENGINEER ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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